

DuPont Performance Polymers Rynite® RE19051 BK507 Polyethylene Terephthalate (PET)

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Glass/Mineral Reinforced

Material Notes:

40% Glass/Mineral Reinforced Flame Retardant Polyethylene Terephthalate Rynite RE19051 BK507 is a 40% glass and mineral reinforced flame retardant polyethylene terephthalate black resin. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Rynite-RE19051-BK507-Polyethylene-Terephthalate-PET.php

Physical Properties	Metric	English	Comments
Density	1.73 g/cc	0.0625 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	ISO 294-4 2577
Melt Flow	70 g/10 min @Load 5.00 kg, Temperature 280 °C	70 g/10 min @Load 11.0 lb, Temperature 536 °F	cm ³ /10min; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	ISO 527-1/-2
Tensile Strength	195 MPa	28300 psi	ASTM D638
Elongation at Break	1.7 %	1.7 %	ISO 527-1/-2
	2.4 %	2.4 %	ASTM D638
Tensile Modulus	11.0 GPa	1600 ksi	ISO 527-1/-2
Flexural Strength	170 MPa	24700 psi	ISO 178
Flexural Modulus	9.70 GPa	1410 ksi	ISO 178
Charpy Impact, Notched	0.650 J/cm ²	3.09 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	23.0 µm/m-°C	12.8 µin/in-°F	ISO 11359-1/-2
	0.140 µm/m-°C @Temperature 55.0 - 160 °C	0.0778 µin/in-°F @Temperature 131 - 320 °F	ISO 11359-1/-2
	23.0 µm/m-°C	12.8 µin/in-°F	

Thermal Properties	Metric	English	Comments
	@Temperature -40.0 - 23.0 °C	@Temperature -40.0 - 73.4 °F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	78.0 µm/m-°C	43.3 µin/in-°F	ISO 11359-1/-2
	0.610 µm/m-°C	0.339 µin/in-°F	ISO 11359-1/-2
	@Temperature -40.0 - 23.0 °C	@Temperature -40.0 - 73.4 °F	ISO 11359-1/-2
	1.10 µm/m-°C	0.611 µin/in-°F	ISO 11359-1/-2
	@Temperature 55.0 - 160 °C	@Temperature 131 - 320 °F	ISO 11359-1/-2
Melting Point	247 °C	477 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	214 °C	417 °F	ISO 75-1/-2
Flammability, UL94	V-0	V-0	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	5VA	5VA	IEC 60695-11-20
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+14 ohm-cm	5.00e+14 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 60093

Descriptive Properties	Value	Comments
Delivery Form	Pellets	
Part Marking Code	>PET-(MD+GF)40FR<	ISO 11469
Processing	Injection Moulding	
Regional Availability	Asia Pacific	
Resin Identification	PET-(MD+GF)40FR(17)	
UL recognition	UL	

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